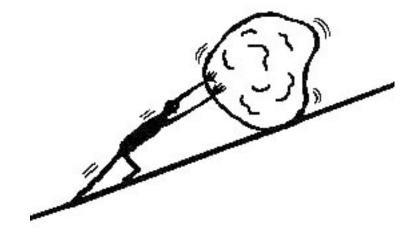
LCG and Tier-1 Facilities Status

- LCG interoperability.
- Tier-1 facilities...
- Observations. (Not guaranteed to be wrv. witty or nonobvious.)



LCG Interoperability

Three interoperability choices

- 1. Dedicated machinery.
 - 1. 5 nodes/10 cpus now is 13 nodes/26 cpus no SE.
 - 2. LCG-2_0_0 via LCFGng. Upgrade available.
 - 3. We have been "off the air" since #2 started.

2.LCG gateway to US-CMS resources.

- 1. LCG CE installed on cmssrv10 with condor-g May 10.
- 2. Sporadic work has been done:
 - . problems time ! = progress
- 3. Solutions in new upgrade?

3. Common interfaces.

Things to do

- Upgrade to current tag on dedicated resources and on CE interface (cmssrv10).
- Get back online with current resources.
 - Enter LCG fray.
- Configure CE interface.
 - Test simple jobs with current LCG.
 - Test simple jobs with one CMS cluster.
 - Configure farm to behave as LCG worker nodes.
 Test again.

LCG Observations

- LCG support is good.
- LCG installation infrastructure is not (LCFGng).
- LCG instructions on doing manual installs is good. (Manual installs are Rocksible.)
- My input has been nil once up due to other time constraints.
- FNAL is a minimal presence due to time and resource constraints both human and

Tier-1 Facilities — Current

- 196 machines in 5 clusters with various servers.
 - LCG: 13 WN's.
 - Storage: 20 dcache servers : admin, pool 30 TB
 - 4 IBRIX nodes 9 TB disk.
 - UAF 3 servers, 36 WN's bunch o' disk.
 - PG 4 servers, 84 WN's
 - DGT 1 server, 4 WN's
 - Various servers Rocks, console, bugzilla, VOMS, GIIS, GRIS, LCG-CE, MOP, tomcat/webserver,

Tier-1 Facilities — Future

This year:

- 100 WN's on the floor.
- 4 new storage nodes, 5 new servers.
- 10 TB storage.

Next year

- 300 new worker nodes up to 20 new servers.
- Storage = gobs and gobs
- . 3 FTE's

Stuff to do

- LCG interoperability.
- Dcache vs. Lustre vs. GFS
- Condor or some other batch system.
 - Sharing = fine grained policy
- Continued Rocks work scalability, configuration etc.
- Load balancing for UAF LVS, switch etc.
- High availability for critical servers.
- GRID3/Tier-2 involvement/support.
- Documentation.
- Monitoring users, processes, machines.
- Security (FBS)

Observations

- Political priorities are trumped by physical realities.
- $-\sum N(TE) \le \sum N(People)$
- CMS sysadmin ratio has been at 1:100 but many servers and storage with unique configurations included. (Google is at 1:500; Farms team is about 1:200-250 but they mostly deal with physical problems, no higher level issues, no research, not much grid - yet.)
- UAF, storage, PG are separate knowledge